

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION TO THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 175 AND LLEWELLYN AVE. / BLUE WATER BLVD. IN ANNE ARUNDEL COUNTY. MD 175 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION CURRENTLY OPERATES IN A NEMA SIX-PHASE, SEMI-TRAFFIC-ACTUATED MODE, WITH THE MD 175 APPROACHES OPERATING CONCURRENTLY AND THE LLEWELLYN AVE. / BLUE WATER BLVD. APPROACHES OPERATING CONCURRENTLY.

EXCLUSIVE LEFT TURN PHASES ARE CURRENTLY PROVIDED FOR NORTHBOUND AND SOUTHBOUND MD 175.

SIGNAL WORK WILL CONSIST OF CHANGING THE SIDE STREET PHASING TO A SPLIT OPERATION.

LANE USE REVISIONS WILL CONSIST OF MARKING DOUBLE LEFT TURN LANES ON LLEWELLYN AVE. / BLUE WATER BLVD.

CONTROLLER REQUIREMENTS

THE EXISTING FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER HOUSED IN A BASE MOUNTED CABINET WILL BE USED.

SPECIAL NOTES

1) NO EQUIPMENT WILL BE SUPPLIED BY THE SHA ON THIS PROJECT

EQUIPMENT LIST

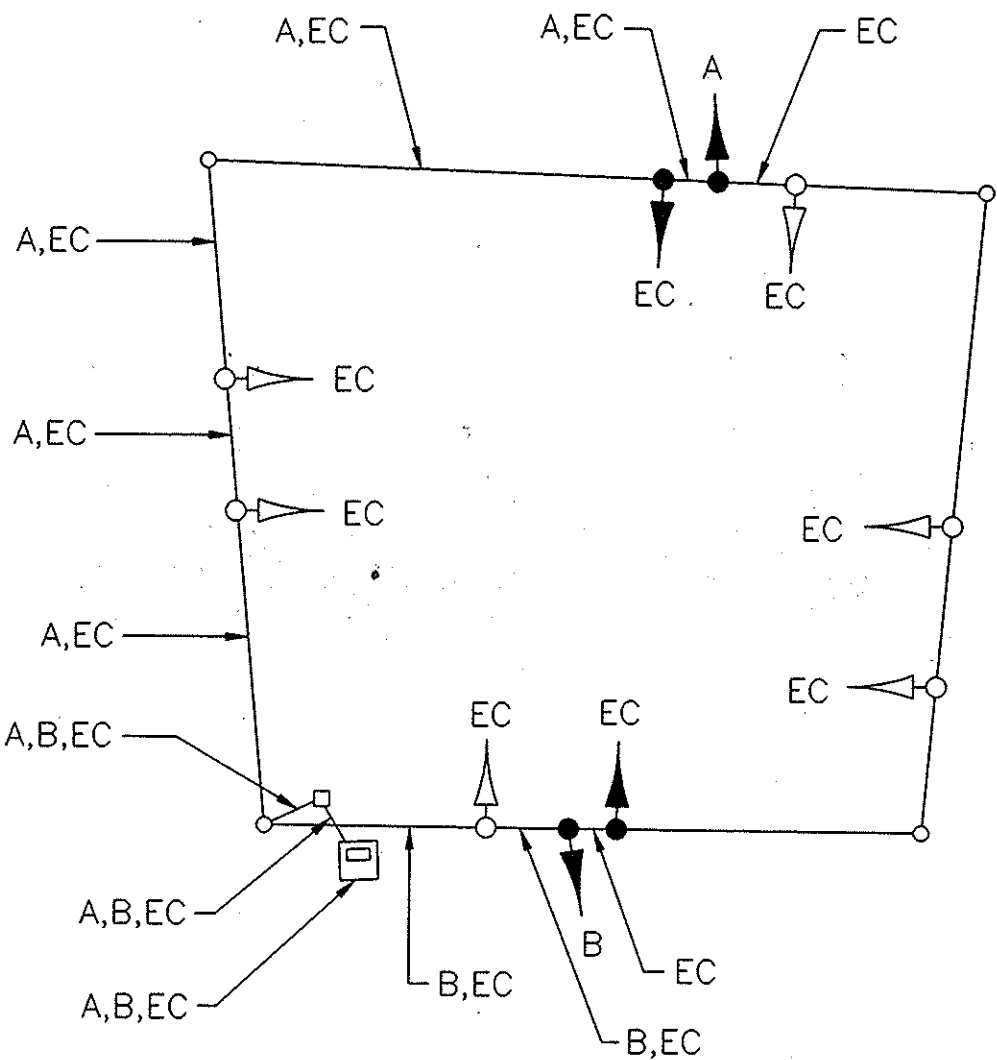
EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
----	16 EACH	PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING LETTER
----	6 EACH	PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING "LEFT" ARROW
----	3 EACH	PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING "LEFT/STRAIGHT" ARROW
----	3 EACH	PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING "LEFT/STRAIGHT/RIGHT" ARROW
----	6 EACH	REMOVE EXISTING PAVEMENT MARKING "ARROW"
----	3 EACH	REMOVE EXISTING PAVEMENT MARKING "ONLY"
----	150 L.F.	5 IN. PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE
----	4 EACH	FURNISH AND INSTALL 8 IN./12 IN., ONE-WAY, FOUR-SECTION (R,Y,G,GA) TRAFFIC SIGNAL HEAD WITH TUNNEL VISORS AND ADJUSTABLE BRACKET FOR SPAN WIRE MOUNTING
----	52 S.F.	FURNISH AND INSTALL SHEET ALUMINUM SIGNS TO CONSIST OF THE FOLLOWING: - 1 EACH R3-6 MOD. SIGN (30 IN. X 36 IN.) - SPAN WIRE MOUNT - 1 EACH R3-5(L) SIGN (30 IN. X 36 IN.) - SPAN WIRE MOUNT - 1 EACH R3-6 SIGN (30 IN. X 36 IN.) - SPAN WIRE MOUNT - 2 EACH R3-8 MOD. "LT. - LT./ST./RT." SIGN (30 IN. X 30 IN.) - GROUND MOUNT - 2 EACH R3-8 "LT. - LT./ST." SIGN (30 IN. X 30 IN.) - GROUND MOUNT
----	2 EACH	REMOVE EXISTING SIGNAL HEAD
8051	60 L.F.	FURNISH AND INSTALL 4 IN. X 4 IN. TREATED WOOD POSTS
8045	350 L.F.	FURNISH AND INSTALL 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
PHASE 1 + 5	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW
1 + 5 CHANGE	G	G	G	G	G	G	G	G	G	G	G	DW	DW	DW	DW	DW
PHASE 1 + 6	G	G	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW
1 + 6 CHANGE	Y	Y	G	G	G	G	G	G	G	G	G	DW	DW	DW	DW	DW
PHASE 2 + 5	R	R	G	G	R	R	R	R	R	R	R	DW	DW	DW	DW	DW
2 + 5 CHANGE	R	R	G	G	R	R	R	R	R	R	R	DW	DW	DW	DW	DW
PHASE 2 + 6	G	G	G	G	R	R	R	R	R	R	R	WK	WK	WK	DW	WK
PED CLEAR	G	G	G	G	R	R	R	R	R	R	R	FL/DW	FL/DW	FL/DW	DW	FL/DW
2 + 6 CHANGE	Y	Y	Y	Y	R	R	R	R	R	R	R	DW	DW	DW	DW	DW
PHASE 3	R	R	R	R	R	R	R	R	R	R	R	G	DW	DW	DW	DW
3 CHANGE	R	R	R	R	R	R	R	R	R	R	R	Y	DW	DW	DW	DW
PHASE 4	R	R	R	R	G	G	G	G	R	R	R	DW	DW	DW	DW	DW
4 CHANGE	R	R	R	R	Y	Y	Y	Y	R	R	R	DW	DW	DW	DW	DW
PHASE 4 ALT.	R	R	R	R	G	G	G	G	R	R	R	DW	DW	DW	DW	DW
PED CLEAR	R	R	R	R	G	G	G	G	R	R	R	DW	DW	DW	FL/DW	FL/DW
4 ALT CHANGE	R	R	R	R	Y	Y	Y	Y	R	R	R	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK

WIRING DIAGRAM



WIRING KEY

A - 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
B - 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
EC - EXISTING CABLE

TRAFFIC CONCEPTS, INC.

Brightview Business Center
8258 Veterans Highway
Suite 19B
Millersville, MD 21108
(410) 987-0427

REVISIONS

APPROVALS



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION SHEET
MD 175 AND LLEWELLYN AVE. / BLUE WATER BLVD.

DATE: 9-23-98	DRAWN BY: T. ZAYDEL	F.A.P. NO.	PLAN SHEET NO.:	SHEET NO.
SCALE: NONE	DESIGNED BY: T. ZAYDEL	S.H.A. NO.	TS-163E-GI	2 OF 2
APPROVED BY:	CHECKED BY: K. SCHMID	COUNTY: ANNE ARUNDEL		